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# STATISTICAL THEORY AND METHOD ABSTRACTS

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## STATISTICAL THEORY AND METHOD ABSTRACTS

### COVERAGE OF JOURNAL

THE aim of this journal is to give complete coverage of papers with contributions to the theory and method of mathematical statistics, theory of probability and immediately related subjects.

To this end journals of all parts of the world are scanned for possible papers to be represented. In the case of the following journals, that are largely devoted to statistical theory, the abstracting of papers is done on a complete or virtually complete basis:

- Advances in Applied Probability
- Annals of Mathematical Statistics
- Annals of the Institute of Statistical Mathematics
- Biometrics
- Biometrika
- Calcutta Statistical Association Bulletin
- Journal of Applied Probability
- Journal of the Indian Statistical Association
- Journal of Multivariate Analysis
- Journal of the Royal Statistical Society (Series B)
- Metrika
- Sankhyā (Series A)
- South African Statistical Journal
- Technometrics
- Theory of Probability and its Applications
- Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete

In addition to the ordinary journals, there are other kinds of publications which fall within the scope of this journal of abstracts. They are experiment and other research station reports and relevant individual papers in the reports of conferences, symposia and seminars as well as commemorative volumes. Abstracts of the former type of paper will be limited to those of which it is reasonably sure the user can obtain reprints.

### ARRANGEMENT OF ABSTRACTS

All abstracts are in the English language. The language of the original paper is indicated. In addition to volume and page numbers of the relevant journal, the numbers of references, tables and figures are stated. Also given is the author's address, if available. This may facilitate contact for discussing the contents of the paper or to request an offprint.

Each issue contains an author index; these are combined to an annual index in this index supplement.

The abstracts are classified according to the 12 main sections of the Classification Scheme, given on pages v and vi, and are printed on coloured paper, each colour corresponding to a main section. Within each main section the abstracts are arranged in alphabetical order. The abstracts bear a primary classification number, indicating the main section and the subsection according to the Classification Scheme. For the most important cross references, secondary classification numbers have been added in brackets.



Each issue contains an Analysis of Secondary Classifications with a listing of all abstracts, arranged in the order of their secondary number. The combined analysis is also published in this supplement.

The format and simple binding allows for the following alternative treatments by users of the journal:

- (a) Leave intact as a shelf-periodical.
- (b) Split for filing in page form according to the main sections of the classification.
- (c) Split and guillotine (single cut) each page for:
  - (i) using in a card-index,
  - (ii) filing in loose leaf or other binders for which the appropriate holes are punched: binding cases are available from the publishers.

#### STATISTICAL ALGORITHMS

Starting with Volume 10, an index of published algorithms of statistical interest is provided. It covers all relevant algorithms published from 1960 onwards. In the complete list for this Volume, as published in this supplement, the algorithms are arranged in the order of classification number and are identified by their title and reference number.

# SCHEME FOR CLASSIFICATION OF ABSTRACTS

## 0. MATHEMATICAL METHODS (White)

0. General papers
1. Solution of equations
2. Methods of curve and surface fitting: smoothing
3. Interpolation and quadrature
4. Special functions and transforms
5. Functional relationships
6. Determinantal and matrix analysis
7. Game theory
8. Programming techniques
9. Group and field theory
10. Graph theory and combinatorial analysis
11. Measure theory
12. Optimisation

## 1. PROBABILITY (Pink)

0. General papers
1. Calculus of probabilities
2. Expected values
3. Combinatorial problems
4. Geometric probability
5. Limit theorems
6. Stochastic convergence
7. Stochastic approximation
8. Decision theory and functions
9. Transforms: Fourier, Laplace, etc.
10. Convolutions
- 11.
- 12.

## 2. FREQUENCY DISTRIBUTIONS (Green)

0. General papers
1. Descriptive properties
2. Transformations of variates
3. Normal and lognormal
4. Binomial, multinomial and hypergeometric
5. Poisson, exponential, negative binomial, logarithmic and contagious
6. Rectangular, extreme value and Weibull
7. Pearson and "series expansion" distributions
8. Truncated and mixed distributions
9. Multivariate distributions
10. Limit distributions
11. Approximations
12. Other distributions

## 3. SAMPLING DISTRIBUTION; (Light Blue)

0. General papers
1.  $t$ ,  $z$ ,  $F$  and  $\chi^2$  distributions
2. Non-central distributions
3. Studentisation
4. Quadratic forms
5. Correlation and regression coefficients
6. Location and scale statistics
7. Shape and other descriptive statistics
8. Order statistics
9. Multivariate problems
10. Limit distributions
11. Linear forms
- 12.

## 4. ESTIMATION (Yellow)

0. General papers
1. Properties of estimators
2. Types of estimator: Bayes, maximum likelihood, least squares, etc.
3. Individual estimators: point
4. Individual estimators: interval
5. Inequalities: tolerance limits and regions
6. Distribution-free methods
7. Sequential methods
8. Multivariate problems
9. Finite population procedures—surveys
10. Simultaneous estimation
11. Distribution functions and densities
12. Decision theory

## 5. HYPOTHESIS TESTING (Purple)

0. General papers
1. Properties of test
2. Individual hypotheses
3. Two-sample problem
4.  $k$ -sample problem
5. Outliers
6. Distribution-free tests
7. Sequential tests
8. Multivariate problems
9. Types of test: likelihood ratio, Bayes, minimax, etc.
10. Goodness-of-fit tests
11. Combining and comparing tests
12. Decision theory

## 6. RELATIONSHIPS (Grey)

0. General papers
1. Regression; linear hypothesis, polynomials
2. Correlation inc. canonical correlation
3. Factor methods and principal components
4. Discriminant analysis and cluster analysis
4. Ranking and scaling methods
6. Systems of equations: structure
7. Non-linear equations—logistic
8. Transformed relationships—quantal response
9. Association and contingency
10. Functional relationships
11. Non-standard conditions
12. Other multivariate methods

## 7. VARIANCE ANALYSIS (Biscuit)

0. General papers
1. Fixed effects model
2. Variance components model
3. Mixed and other models
4. Non-orthogonal data and missing values
5. Non-standard conditions—failure of assumptions
6. Covariance analysis
7. Multiple comparisons; multiple decision procedures
8. Ranked data
9. Sequential methods inc. preliminary tests
10. Combining sets of results
11. Precision of measurement
12. Multivariate models



## 8. SAMPLING DESIGN (Orange)

0. General papers
1. Simple random; stratified; multi-stage
2. Sampling with unequal probability
3. Multi-phase sampling; double sampling
4. Natural (human, animal and biological) populations
5. Non-sampling problems
6. Censored, systematic and quota sampling
7. Nature and number of units; cost and efficiency
8. Acceptance inspection
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- 11.
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## 9. DESIGN OF EXPERIMENT; (Blue)

0. General papers
1. Block designs; designs for two-way elimination of heterogeneity
2. Factorial arrangements
3. Response surfaces
4. Nature of unit; number of replications; cost and efficiency
5. Paired comparisons and matching problems
6. Preference tests
7. Repeated and sequential experiments
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10. Systematic designs
11. Screening tests
12. Other designs, *e.g.* mixtures

## 10. STOCHASTIC PROCESSES AND TIME SERIES (Red)

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1. Properties of individual processes
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12. Teaching and training methods



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# ANALYSIS OF SECONDARY CLASSIFICATIONS

In this index all abstracts appearing in this Volume are listed according to their secondary classification—given in braces at the top of each abstract—if there is any. Abstracts are indicated by their primary classification number (bold) and serial number.

SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER	SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER
0.0	<b>1.0</b> , 1234; <b>1.0</b> , 1235; <b>1.0</b> , 1236; <b>1.0</b> , 1237	2.1	<b>0.4</b> , 17; <b>2.5</b> , 104; <b>10.9</b> , 298; <b>1.2</b> , 1232; <b>11.0</b> , 1588
0.1	<b>10.4</b> , 330; <b>10.0</b> , 358; <b>10.1</b> , 1153; <b>10.0</b> , 1576; <b>11.0</b> , 1601	2.2	<b>2.9</b> , 94; <b>3.8</b> , 476; <b>7.0</b> , 605
0.2	<b>11.1</b> , 1166; <b>4.10</b> , 1287	2.3	<b>1.1</b> , 54; <b>3.8</b> , 117; <b>4.2</b> , 537; <b>1.6</b> , 817; <b>2.9</b> , 837; <b>4.4</b> , 902; <b>1.2</b> , 1207; <b>1.1</b> , 1228; <b>2.5</b> , 1251; <b>4.3</b> , 1335; <b>4.4</b> , 1358; <b>5.10</b> , 1387
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0.4	<b>3.9</b> , 128; <b>10.10</b> , 329; <b>10.11</b> , 333; <b>10.4</b> , 342; <b>11.3</b> , 371; <b>2.9</b> , 458; <b>3.2</b> , 482; <b>10.11</b> , 1127; <b>10.6</b> , 1548; <b>10.10</b> , 1561; <b>11.9</b> , 1590; <b>11.11</b> , 1595	2.5	<b>1.0</b> , 35; <b>2.11</b> , 100; <b>2.2</b> , 112; <b>4.2</b> , 156; <b>4.2</b> , 175; <b>5.10</b> , 185; <b>10.6</b> , 326; <b>2.9</b> , 465; <b>4.3</b> , 897; <b>4.4</b> , 882; <b>10.1</b> , 1120; <b>4.3</b> , 1307; <b>4.1</b> , 1316; <b>10.4</b> , 1530
0.6	<b>6.2</b> , 201; <b>10.11</b> , 360; <b>11.5</b> , 383; <b>3.2</b> , 488; <b>6.1</b> , 974; <b>6.3</b> , 961; <b>6.4</b> , 952; <b>0.4</b> , 1201; <b>3.9</b> , 1285; <b>3.9</b> , 1286; <b>10.11</b> , 1514	2.6	<b>4.2</b> , 138; <b>11.1</b> , 390; <b>2.8</b> , 833; <b>4.3</b> , 877; <b>2.1</b> , 1249
0.7	<b>4.12</b> , 173; <b>10.1</b> , 684; <b>10.11</b> , 1089; <b>1.0</b> , 1218	2.7	<b>2.2</b> , 846; <b>2.9</b> , 1262
0.8	<b>1.10</b> , 419; <b>0.2</b> , 758	2.8	<b>2.5</b> , 82; <b>4.11</b> , 530; <b>4.2</b> , 889, 890; <b>5.8</b> , 910; <b>2.0</b> , 1259; <b>2.3</b> , 1266; <b>4.10</b> , 1311; <b>4.3</b> , 1329
0.9	<b>9.1</b> , 1050	2.9	<b>2.2</b> , 65; <b>3.9</b> , 123; <b>3.9</b> , 124; <b>3.9</b> , 125; <b>3.9</b> , 129; <b>5.10</b> , 190; <b>6.9</b> , 207; <b>6.4</b> , 208; <b>6.2</b> , 226; <b>6.2</b> , 229; <b>3.10</b> , 485; <b>1.1</b> , 771; <b>6.2</b> , 980; <b>11.11</b> , 1162; <b>0.4</b> , 1189
0.10	<b>1.5</b> , 759; <b>10.0</b> , 1077; <b>1.1</b> , 1220	2.10	<b>1.5</b> , 437
0.11	<b>1.0</b> , 43; <b>10.6</b> , 292; <b>10.0</b> , 294; <b>10.0</b> , 306; <b>10.11</b> , 361; <b>1.5</b> , 422; <b>4.11</b> , 505; <b>1.0</b> , 775	2.11	<b>3.1</b> , 131; <b>3.6</b> , 475
0.12	<b>9.3</b> , 260; <b>10.4</b> , 307; <b>10.0</b> , 325; <b>10.0</b> , 365; <b>10.0</b> , 366; <b>10.10</b> , 369; <b>0.7</b> , 406; <b>0.8</b> , 411; <b>4.3</b> , 903; <b>0.8</b> , 1177; <b>0.8</b> , 1184	2.12	<b>2.8</b> , 77; <b>2.5</b> , 83; <b>4.4</b> , 165
1.0	<b>0.7</b> , 9; <b>0.11</b> , 14; <b>1.5</b> , 27; <b>1.9</b> , 47; <b>0.0</b> , 403; <b>0.11</b> , 408; <b>11.9</b> , 724; <b>11.9</b> , 725; <b>0.7</b> , 746; <b>0.11</b> , 736, 743; <b>1.1</b> , 783; <b>5.0</b> , 925; <b>11.11</b> , 1168; <b>1.1</b> , 1230	3.0	<b>2.11</b> , 841, 842; <b>10.0</b> , 1155
1.1	<b>10.1</b> , 270; <b>10.11</b> , 295; <b>1.3</b> , 789, 793; <b>1.5</b> , 790; <b>1.6</b> , 786; <b>10.1</b> , 1154; <b>1.2</b> , 1229; <b>2.9</b> , 1257	3.1	<b>0.6</b> , 12; <b>2.8</b> , 103; <b>7.5</b> , 232; <b>2.4</b> , 450; <b>2.7</b> , 827; <b>5.10</b> , 932; <b>11.7</b> , 1172; <b>4.10</b> , 1314; <b>4.4</b> , 1345; <b>4.4</b> , 1364; <b>5.8</b> , 1388
1.2	<b>1.6</b> , 425; <b>0.2</b> , 1186; <b>5.7</b> , 1384	3.2	<b>3.9</b> , 130; <b>4.8</b> , 525; <b>10.4</b> , 1541
1.3	<b>0.7</b> , 4	3.4	<b>0.6</b> , 412
1.5	<b>1.1</b> , 23; <b>1.0</b> , 25; <b>1.1</b> , 55; <b>10.12</b> , 281; <b>10.1</b> , 297; <b>10.12</b> , 347; <b>3.10</b> , 490; <b>10.1</b> , 657; <b>1.1</b> , 787; <b>1.6</b> , 762, 796; <b>3.8</b> , 853; <b>10.1</b> , 1087; <b>10.4</b> , 1101; <b>10.6</b> , 1137; <b>10.12</b> , 1125; <b>4.11</b> , 1340; <b>10.4</b> , 1488; <b>10.12</b> , 1509; <b>10.4</b> , 1528; <b>10.4</b> , 1574; <b>10.11</b> , 1581; <b>10.4</b> , 1582	3.5	<b>6.1</b> , 210; <b>11.0</b> , 397; <b>6.2</b> , 965
1.6	<b>1.1</b> , 60; <b>1.2</b> , 440; <b>5.3</b> , 567; <b>1.2</b> , 760; <b>2.4</b> , 836; <b>10.11</b> , 1142; <b>5.12</b> , 1409; <b>10.11</b> , 1529	3.6	<b>2.12</b> , 454
1.8	<b>8.9</b> , 615; <b>8.8</b> , 1014; <b>5.7</b> , 1404; <b>8.1</b> , 1467; <b>10.1</b> , 1500	3.8	<b>2.2</b> , 88; <b>4.1</b> , 501; <b>2.6</b> , 1252; <b>7.7</b> , 1450; <b>11.1</b> , 1591
1.9	<b>10.12</b> , 308; <b>2.8</b> , 464; <b>1.2</b> , 813; <b>3.10</b> , 861; <b>3.8</b> , 1276; <b>10.11</b> , 1506; <b>10.5</b> , 1570; <b>11.11</b> , 1598	3.9	<b>2.9</b> , 71; <b>2.9</b> , 91; <b>2.9</b> , 116; <b>5.8</b> , 184; <b>3.0</b> , 487; <b>6.4</b> , 596; <b>0.4</b> , 739; <b>1.2</b> , 1210; <b>2.2</b> , 1256; <b>5.8</b> , 1389
1.10	<b>1.0</b> , 791; <b>2.3</b> , 825	3.10	<b>10.8</b> , 282; <b>5.6</b> , 557; <b>5.2</b> , 924
2.0	<b>0.4</b> , 2; <b>2.5</b> , 79; <b>5.7</b> , 177; <b>1.0</b> , 438; <b>5.7</b> , 563	3.11	<b>3.8</b> , 1284
		4.0	<b>4.2</b> , 158; <b>6.7</b> , 218; <b>1.2</b> , 423; <b>0.11</b> , 747; <b>1.0</b> , 773; <b>1.2</b> , 1244; <b>4.7</b> , 1341
		4.1	<b>4.0</b> , 524; <b>6.1</b> , 592; <b>3.5</b> , 862; <b>4.4</b> , 880; <b>4.12</b> , 899; <b>11.11</b> , 1165; <b>4.2</b> , 1326; <b>4.2</b> , 1327; <b>4.11</b> , 1339; <b>7.2</b> , 1454; <b>9.1</b> , 1476; <b>10.2</b> , 1557

SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER	SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER
4.2	2.9, 87; 4.1, 137; 6.4, 202; 3.6, 491; 6.10, 584; 6.1, 600; 6.8, 602; 2.4, 834; 4.0, 863; 5.9, 945; 6.1, 985; 7.2, 997; 10.2, 1134; 11.35; 10.9, 1145; 0.6, 1191; 0.6, 1195; 2.6, 1254; 4.1, 1289; 4.10, 1323; 6.1, 1413; 6.1, 1414; 6.1, 1435; 10.2, 1543	6.12	6.4, 204
4.3	4.1, 147; 1.7, 429; 1.7, 430; 7.0, 611; 2.12, 835; 4.0, 874; 11.11, 1167; 5.3, 1407	7.0	2.9, 101; 7.3, 234
4.4	2.6, 93; 7.7, 235; 2.2, 457; 5.2, 927, 931; 6.9, 963	7.2	6.1, 223; 4.1, 1317
4.5	4.4, 1295	7.5	9.7, 1042; 5.1, 1408
4.6	4.7, 872; 11.12, 1161	7.6	9.1, 622
4.7	1.8, 435; 9.7, 1051; 4.5, 1363	7.7	5.2, 923; 7.0, 1446
4.8	4.3, 146; 4.11, 155; 4.4, 172; 4.1, 1291	7.12	3.9, 126; 3.9, 127; 3.9, 135; 4.8, 533; 7.2, 609; 7.8, 1007; 7.0, 1009
4.9	8.1, 248; 2.1, 460; 8.2, 1011	8.0	10.7, 280; 4.3, 893
4.10	6.9, 586; 4.1, 875; 6.1, 960, 992; 6.6, 1442	8.1	8.2, 239; 8.4, 242; 1.1, 814; 8.3, 1018; 4.2, 1344; 5.12, 1367
4.11	8.4, 252; 4.1, 1303	8.2	4.1, 867; 4.9, 512; 4.9, 526; 4.9, 1338
4.12	4.2, 522; 4.4, 1293; 4.4, 1350; 4.3, 1353; 10.11, 1554; 11.10, 1604	8.3	4.9, 528
5.0	1.1, 428; 4.0, 876; 5.2, 948; 4.0, 1304	8.4	4.11, 154; 4.9, 164; 5.1, 550; 4.7, 1298; 4.7, 1306; 4.3, 1333; 4.9, 1343
5.1	5.7, 183; 5.2, 191; 5.6, 539; 5.8, 547; 5.0, 552; 5.7, 574; 5.7, 576; 1.1, 1221; 5.6, 1373	8.6	4.2, 496; 11.11, 1597
5.2	4.3, 163; 6.1, 215; 6.4, 216; 4.3, 521; 4.3, 527; 6.1, 587; 5.4, 934; 5.9, 939; 6.9, 951; 7.5, 996; 7.3, 1000; 9.7, 1041; 3.7, 1280; 4.4, 1296; 5.10, 1372; 5.4, 1392; 5.7, 1403; 5.6, 1410; 9.2, 1474; 10.10, 1510; 11.3, 1587	8.7	8.1, 246; 8.1, 1469
5.3	4.4, 1288	8.8	4.1, 149; 11.1, 399
5.4	3.1, 120; 5.6, 938	9.0	11.9, 382
5.5	7.2, 1457	9.1	7.4, 233; 9.2, 258; 5.6, 566; 0.9, 740; 7.7, 1455; 7.12, 1456; 9.9, 1473
5.6	5.1, 196; 5.1, 197; 5.3, 556; 5.1, 558; 1.5, 788; 3.0, 859; 4.6, 879; 5.10, 922, 933; 5.4, 936	9.2	7.3, 1449; 7.8, 1452
5.7	5.9, 187; 8.8, 250; 10.3, 349; 8.8, 1021	9.3	9.12, 254; 9.2, 1471
5.8	2.1, 96; 3.9, 480; 5.11, 546; 5.6, 916; 3.10, 1278; 5.0, 1369; 7.8, 1448	9.4	9.5, 1039
5.9	3.10, 119; 5.2, 178; 5.3, 180; 3.10, 471; 3.9, 857; 4.4, 1325	9.5	5.6, 935; 9.0, 1046; 6.12, 1418
5.10	0.4, 20; 3.8, 1282; 5.2, 1366; 5.6, 1368; 5.2, 1401; 6.9, 1441	9.6	1.8, 1239
5.11	5.10, 1365; 5.7, 1399; 6.1, 1411	9.7	9.1, 1043; 9.11, 1031; 9.12, 1047; 11.5, 1174
5.12	10.5, 1123	9.9	8.8, 240; 8.4, 1465
6.0	4.3, 144	9.11	9.1, 1034
6.1	7.12, 236; 10.7, 334; 11.5, 391; 3.9, 481; 4.3, 495; 10.7, 692; 4.3, 904; 5.1, 920; 6.11, 953, 984; 10.6, 1095; 1.5, 1240; 4.2, 1337; 4.10, 1349; 4.1, 1352; 4.9, 1354; 4.5, 1357; 4.4, 1359; 7.2, 1447	9.12	7.2, 237; 9.1, 627
6.2	8.1, 244; 1.1, 441; 3.9, 493; 3.5, 855; 5.8, 1376	10.0	1.5, 64; 10.10, 272; 10.11, 278; 10.1, 289; 10.1, 357; 10.6, 686; 10.6, 687; 2.3, 821 10.6, 1140; 0.1, 1179; 1.7, 1222; 4.2, 1355; 10.1, 1550
6.3	5.9, 937; 6.2, 970	10.1	0.11, 8; 1.9, 24; 1.3, 28; 1.8, 31; 1.1, 41; 10.12, 304; 10.6, 319; 10.11, 338; 10.4, 344; 10.4, 346; 10.11, 647; 10.4, 660; 10.4, 688; 0.7, 733; 2.3, 839; 10.10, 1105; 10.11, 1073; 1.5, 1231; 10.11, 1498; 10.4, 1517; 10.10, 1527; 10.12, 1555; 10.9, 1559; 10.0, 1565; 10.11, 1575
6.4	9.5, 256; 3.9, 477; 6.1, 590; 6.1, 973; 7.12, 998; 4.8, 1292; 5.8, 1397	10.2	10.6, 328; 4.3, 507; 10.4, 676; 6.1, 972; 8.9, 1028; 10.7, 1149; 10.12, 1148; 6.1, 1431; 10.11, 1491
6.5	3.5, 1281; 4.2, 1318; 11.1, 1592	10.3	10.8, 363; 10.1, 653; 10.2, 1106
6.6	3.1, 492; 4.0, 1305; 4.2, 1348	10.4	10.2, 286; 10.0, 343; 2.8, 463; 10.10, 1064, 1092; 10.0, 1503; 10.1, 1518; 10.11, 1571
6.8	6.9, 976; 9.7, 1035; 5.6, 1402	10.5	6.1, 227; 11.0, 723; 1.4, 765; 6.9, 966; 2.1, 1261
6.9	11.3, 394; 2.8, 448; 5.2, 926; 5.1, 1370	10.6	1.5, 29; 0.2, 416; 10.4, 662; 10.2, 689; 10.2, 708; 9.7, 1040; 10.2, 1081, 1096; 10.1, 1494
6.10	2.12, 109; 4.8, 167	10.7	6.1, 203; 6.1, 205; 6.1, 225; 11.9, 384; 6.1, 577; 6.1, 580; 6.1, 581; 6.1, 582; 6.1, 591; 10.6, 1103; 5.2, 1378; 5.2, 1379; 5.6, 1381; 5.1, 1385; 6.1, 1412
6.11	4.3, 1330	10.8	10.6, 643



SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER	SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER
10.9	<b>0.1</b> , 13; <b>2.4</b> , 67; <b>10.11</b> , 340; <b>5.0</b> , 571; <b>10.12</b> , 650; <b>0.7</b> , 407; <b>1.8</b> , 431; <b>10.0</b> , 638; <b>10.1</b> , 639; <b>10.12</b> , 644; <b>10.4</b> , 677; <b>10.2</b> , 685; <b>10.4</b> , 702; <b>10.0</b> , 716; <b>4.1</b> , 866; <b>7.2</b> , 1001, 1002; <b>10.2</b> , 1113; <b>7.3</b> , 1453; <b>10.2</b> , 1579; <b>11.7</b> , 1600	11.1	<b>2.12</b> , 86; <b>3.1</b> , 121; <b>8.8</b> , 245; <b>3.6</b> , 473; <b>5.3</b> , 561; <b>3.9</b> , 1274; <b>3.8</b> , 1277
10.10	<b>10.1</b> , 1147; <b>10.4</b> , 1091; <b>10.1</b> , 1537; <b>10.4</b> , 1560; <b>10.11</b> , 1573	11.2	<b>10.9</b> , 1511
10.11	<b>0.8</b> , 1; <b>0.11</b> , 7; <b>1.5</b> , 33; <b>1.5</b> , 40; <b>10.2</b> , 266; <b>10.0</b> , 271; <b>10.1</b> , 273; <b>10.4</b> , 291; <b>10.1</b> , 296; <b>10.1</b> , 300; <b>10.1</b> , 312; <b>10.10</b> , 314; <b>10.4</b> , 316; <b>6.1</b> , 957; <b>10.4</b> , 1078, 1090; 1114; <b>10.7</b> , 1146; <b>10.10</b> , 1071, 1072; <b>10.12</b> , 1109; <b>5.6</b> , 1377; <b>10.4</b> , 1519; <b>10.4</b> , 1538; <b>10.1</b> , 1568; <b>10.10</b> , 1584; <b>10.12</b> , 1585	11.3	<b>10.4</b> , 265; <b>5.3</b> , 573
10.12	<b>10.11</b> , 637	11.5	<b>0.12</b> , 15; <b>1.3</b> , 37; <b>11.7</b> , 379; <b>6.1</b> , 593; <b>0.10</b> , 745; <b>4.2</b> , 884; <b>6.3</b> , 958; 977, 978; <b>6.4</b> , 968; <b>7.4</b> , 1008; <b>10.7</b> , 1075; <b>0.2</b> , 1183; <b>6.4</b> , 1428; <b>6.3</b> , 1429; <b>6.7</b> , 1438; <b>10.5</b> , 1572; <b>11.0</b> , 1594
11.0	<b>0.0</b> , 18; <b>4.12</b> , 166; <b>11.5</b> , 374; <b>11.5</b> , 386; <b>6.12</b> , 579; <b>0.1</b> , 734; <b>5.0</b> , 921; <b>7.4</b> , 1003; <b>11.12</b> , 1593; <b>11.11</b> , 1603	11.6	<b>6.2</b> , 209
		11.7	<b>10.9</b> , 324; <b>4.3</b> , 511; <b>10.4</b> , 655; <b>1.5</b> , 820; <b>5.3</b> , 917; <b>6.5</b> , 990; <b>6.2</b> , 1419; <b>6.3</b> , 1421
		11.10	<b>2.12</b> , 97; <b>10.11</b> , 1099
		11.11	<b>1.1</b> , 63; <b>1.0</b> , 800; <b>4.0</b> , 901; <b>4.3</b> , 886, 905; <b>0.8</b> , 1198; <b>1.2</b> , 1204; <b>4.3</b> , 1294; <b>4.2</b> , 1300; <b>4.4</b> , 1321; <b>4.11</b> , 1328; <b>4.1</b> , 1346; <b>4.1</b> , 1347; <b>4.3</b> , 1351





# NEW STATISTICAL TABLES

This index contains a listing of all those abstracts in this volume concerning papers that contain new statistical tables. Tables presenting data or results of an investigation or illustrations of a new method are not considered.

If the primary purpose of the paper is to present a new table, the abstract will in general be accordingly classified under **11.1**. Papers which contain a new statistical table but with main purpose to present a new theory or method of testing, e.g. are classified under the relevant code, with 11.1 as secondary classification or even a different one. Since there always remains some ambiguity in assigning the primary and secondary classification number this index gives a complete list of all such papers including those classified under **11.1**.

1. Probability	No.		
Subrahmaniam & Ma	13/57	1.3	
2. Frequency distributions			
Mann, Fertig & Scheuer	13/93	2.6	Extreme value distributions
Good, Gover & Mitchell	13/450	2.4	Pearson's $X^2$ and $\log_{10} \Pr(\chi^2 > a)$
Gideon & Gurland	13/831	2.11	Approximating gamma and related distributions
Brown & Holgate	13/1251	2.5	Poisson log normal distribution
3. Sampling distributions			
Davis & Scott	13/120	3.1	Behrens-Fisher distribution
Hahn & Hendrickson	13/121	3.1	Maximum absolute value $k$ -variate Student's $t$
Herrey	13/473	3.6	Student's $t$ with $s$ replaced by mean absolute deviation
Mathai	13/481	3.9	Likelihood ratio test for regression coefficients
Pillai & Jayachandran	13/489	3.8	Pillai's $V^{(s)}$ criterion
Leslie & Culpin	13/856	3.8	Distribution of quasimidranges
Freeman & Kuzmack	13/1274	3.9	Multivariate $t$
Gumbel & Pickands	13/1277	3.8	Extremal quotient
4. Estimation			
Bain & Antle	13/138	4.2	Estimating Weibull and generalized gamma parameters
Mann & Saunders	13/165	4.4	Life distribution parameters
Likeš	13/517	4.4	Sample size for estimating $\mu$
Harter & Moore	13/875	4.1	Variances and covariances of ML-estimators
Hassanein	13/877	4.3	Weibull parameter estimators
Thoman, Bain & Antle	13/901	4.0	Reliability and tolerance limits for Weibull distribution
Faulkenberry & Daly	13/1301	4.5	Sample size for tolerance limits
Prescott	13/1335	4.3	Distribution of normal scores variance estimator
Wilson & Tonascia	13/1358	4.4	Bayes confidence intervals
5. Hypothesis Testing			
Allen & Beekman	13/541	5.10	One-sided Kac statistic for goodness-of-fit
Allen & Beekman	13/542	5.10	Two-sided Kac statistic
Basu	13/545	5.6	$S_r^{(n)}$ statistic for two sample test
Maag & Stephens	13/561	5.3	$V_{NM}$ statistic for two sample test
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De Jonge & Van Montfort	13/1592	11.1	Spearman's $S$



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<i>Acta Math. Acad. Sci. Hung.</i>	Acta Mathematica Academiae Scientiarum Hungaricae	Hungary
<i>Acta Sci. Math.</i>	Acta Scientiarum Mathematicarum, Szeged	Hungary
<i>Advances Appl. Prob.</i>	Advances in Applied Probability	Great Britain
<i>Allg. Statist. Arch.</i>	Allgemeines Statistisches Archiv	Germany
<i>Amer. Math. Monthly</i>	American Mathematical Monthly	USA
<i>Ann. Inst. Henri Poincaré</i>	Annales de l'Institut Henri Poincaré	France
<i>Ann. Inst. Statist. Math. Tokyo</i>	Annals of the Institute of Statistical Mathematics	Japan
<i>Ann. Math. Stat.</i>	The Annals of Mathematical Statistics	USA
<i>Ann. Univ. Sci. Budapest (Sect. Math.)</i>	Annals of the University of Sciences Budapest (Section Mathematics)	Hungary
<i>Aplik. Mat.</i>	Aplikace Matematiky	Czechoslovakia
<i>Appl. Statist.</i>	Applied Statistics	Great Britain
<i>Arch. History Exact Sci.</i>	Archive for History of Exact Sciences	Germany
<i>Arch. Math.</i>	Archiv der Mathematik	Germany
<i>Arch. Rational Mech. Anal.</i>	Archive for Rational Mechanics and Analyses	Germany
<i>ARL Tech. Rep.</i>	Aerospace Research Laboratories, Wright Patterson Air Force Base, Technical Reports of	USA
<i>Atti Mem. Accad. Patavina SS.LL.AA.</i>	Atti e Memoire Dell' Accademia Patavina di Scienze Lettere ed Arti	Italy
<i>Cl. Sci. Mat. Nat.</i>	Parte II. Memorie della Classe di Scienze Matematiche e Naturali	Australia
<i>Aust. J. Statist.</i>	The Australian Journal of Statistics	Czechoslovakia
<i>Automobiltech. Zeit.</i>	Automobiltechnische Zeitschrift	USA
<i>Biometrics</i>		Great Britain
<i>Biometrika</i>		Germany
<i>Biom. Zeit.</i>	Biometrische Zeitschrift	Germany
<i>Blä. Dtsch. Ges. Versich.-math.</i>	Blätter der Deutschen Gesellschaft für Versicherungsmathematik	Great Britain
<i>Brit. J. Math. Statist. Psychol.</i>	British Journal of Mathematical Statistical Psychology	Great Britain
<i>Brit. J. Phil. Sci.</i>	British Journal of Philosophical Sciences	Netherlands
<i>Bull. Int. Statist. Inst.</i>	Bulletin of the International Statistical Institute	
<i>Cahiers Centre Etudes Rech. Opérat.</i>	Cahiers du Centre d'Etudes de Recherche Opérationnelle	Belgium
<i>Calcutta Statist. Ass. Bull.</i>	Calcutta Statistical Association Bulletin	India
<i>Canad. Math. Bull.</i>	Canadian Mathematical Bulletin	Canada
<i>Collana cà Foscari</i>		Italy
<i>Comment. Phys.-math.</i>	Commentationes Physico-Mathematicae	Finland
<i>Computer Bull.</i>	The Computer Bulletin	Great Britain
<i>Computer J.</i>	The Computer Journal	Great Britain
<i>Computing</i>		Austria
<i>CSIRO Div. Math. Statist. Tech. Paper</i>	Commonwealth Scientific and Industrial Research Organization, Division of Mathematical Statistics Technical Paper	Australia
<i>CSIRO Div. Soils Tech. Paper</i>	Commonwealth Scientific and Industrial Research Organization, Division of Soils Technical Paper	Australia
<i>C.R. Acad. Sci. Paris</i>	Comptes Rendus de l'Académie des Sciences de Paris	France
<i>Cuad. Estadist. Apl. Invest. Oper.</i>	Cuadernos de Estadística Aplicada e Investigación Operativa	Spain
<i>Econometrica</i>		USA
<i>EDV Medizin Biol.</i>	Elektronische Datenverarbeitung in Medizin und Biologie	Germany
<i>IEEE Trans. Inf. Theory</i>	IEEE Transactions on Information Theory	USA
<i>IEEE Trans. Rel.</i>	IEEE Transactions on Reliability	USA
<i>Heredity</i>		Great Britain
<i>Information and Control</i>		USA
<i>Int. J. Computer Math.</i>	International Journal of Computer Mathematics	Great Britain
<i>Int. J. Control</i>	International Journal of Control	Great Britain
<i>Int. J. Game Theory</i>	International Journal of Game Theory	Austria

<i>Jb. Nat. Ökon. Statist.</i>	Jahrbücher für Nationalökonomie und Statistik	Germany
<i>J. Amer. Statist. Ass.</i>	Journal of the American Statistical Association	USA
<i>J. Appl. Prob.</i>	Journal of Applied Probability	Great Britain
<i>J. Aust. Math. Soc.</i>	Journal of the Australian Mathematical Society	Australia
<i>J. Engin. Math.</i>	Journal of Engineering Mathematics	Netherlands
<i>J. Horticul. Sci.</i>	Journal of Horticultural Science	Great Britain
<i>J. Indian Statist. Ass.</i>	Journal of the Indian Statistical Association	India
<i>J. Inst. Actuar.</i>	Journal of the Institute of Actuaries	Great Britain
<i>J. Inst. Math. Appl.</i>	Journal of the Institute of Mathematics and its Applications	Great Britain
<i>J. London Math. Soc.</i>	The Journal of the London Mathematical Society	Great Britain
<i>J. Math. Anal. Appl.</i>	Journal of Mathematical Analysis and Applications	USA
<i>J. Multivariate Analysis</i>	Journal of Multivariate Analysis	USA
<i>J. Qual. Tech.</i>	Journal of Quality Technology	USA
<i>J. Res. Nat. Bur. Stand.</i>	Journal of Research of the National Bureau of Standards	USA
<i>J. R. Statist. Soc.</i>	Journal of the Royal Statistical Society	Great Britain
<i>J. Statist. Res.</i>	Journal of Statistical Research	Pakistan
<i>J. Theoret. Biol.</i>	Journal of Theoretical Biology	Great Britain
<i>Kybernetika</i>		Czechoslovakia
<i>Magy. Tud. Akad. III. Oszt. Közl.</i>	Magyar Tudományos Akademia III Osztalyanak Fizikai Közlemenyei	Hungary
<i>Mathematika</i>		Great Britain
<i>Mat. Fys. Skr. Dan. Vid. Selsk.</i>	Matematisk Fysiske Skrifter, Det Kongelige Danske Videnskabernes Selskab	Denmark
<i>Math. Gaz.</i>	Mathematical Gazette	Great Britain
<i>Mat. Lapok.</i>	Matematikai Lapok	Hungary
<i>Mat. Metody v kibernet. tekhnike</i>	Matematicheskie Metody v. Kyberneticheskoi Tekhnike, Kiev	USSR
<i>Math. Nachr.</i>	Mathematische Nachrichten	Germany
<i>Math. Operat. forschung Statist.</i>	Mathematische Operationsforschung und Statistik	Germany
<i>Math. Scand.</i>	Mathematica Scandinavica	Denmark
<i>Mat. Vestnik</i>	Matematicki Vestnik	Yugoslavia
<i>Math. Zeit.</i>	Mathematische Zeitschrift	Germany
<i>Methodologies of Pattern Recognition</i>		USA
<i>Metrika</i>		Germany
<i>Metron</i>		Italy
<i>Mining Engineering</i>		USA
<i>Multivariate Analysis</i>	Multivariate Analysis-II, P. R. Krishnaiah, editor. New York: Academic Press	USA
<i>Nanta Math.</i>	Nanta Mathematica	Singapore
<i>Nature</i>		Great Britain
<i>Nauchn. Zapiski Tashkent Inst. Narodnogo Khozaistva</i>	Nauchnye Zapiski Tashkent Instituta Narodnogo Khozaistva	USSR
<i>Naval Res. Logist. Quart.</i>	Naval Research Logistics Quarterly	USA
<i>Num. Math.</i>	Numerische Mathematik	Germany
<i>Operat. Res.</i>	Operations Research	USA
<i>Operat. Res. Quart.</i>	Operational Research Quarterly	Great Britain
<i>Operat. Res. Verfahren</i>	Operations Research Verfahren	Germany
<i>Pacific J. Math.</i>	Pacific Journal of Mathematics	USA
<i>Periodica Math. Hung.</i>	Periodica Mathematica Hungarica	Hungary
<i>Proc. Amer. Math. Soc.</i>	Proceedings of the American Mathematical Society	USA
<i>Proceedings of the Anglo-Romanian Conf. Math. Archaeol. Hist. Sci.</i>	Proceedings of the Anglo-Romanian Conference on Mathematics in the Archaeological and Historical Sciences	Great Britain
<i>Proc. 5th Berkeley Symp. Math. Statist. Prob.</i>	Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability	USA
<i>Proc. Camb. Phil. Soc.</i>	Proceedings of the Cambridge Philosophical Society	Great Britain
<i>Proc. 3rd, Int. Powder Metallurgy Conf.</i>	Proceedings, 3rd. International Powder Metallurgy Conference	Czechoslovakia
<i>Proc. London Math. Soc.</i>	Proceedings of the London Mathematical Society	Great Britain
<i>Proc. Nat. Acad. Sci. USA</i>	Proceedings of the National Academy of Sciences of the United States of America	USA



<i>Proc. 2nd Nordic Conf. Math. Statist. Publ. Math. Debrecen</i>	Proceedings, 2nd. Nordic Conference on Mathematical Statistics Publicationes Mathematicae, Debrecen	Norway Hungary
<i>Qualität und Zuverlässigkeit Quar. Appl. Math. Quart. J. Math. Oxford</i>	Quarterly of Applied Mathematics Quarterly Journal of Mathematics	Germany USA Great Britain
<i>Random Counts in Scientific Work</i>	Random Counts in Scientific Work; G. P. Patil, editor. The Pennsylvania State Univ. Press	USA
<i>Rev. Econ. Stud. Rev. Int. Statist. Inst. Rev. Statist. Appl. Rend. Studi Econ. Venezia</i>	Review of Economic Studies Review of the International Statistical Institute Revue de Statistique Appliquée Rendiconti del Comitato per il Potenziamento in Venezia dagli Studi Economici	Great Britain Netherlands France
<i>Res. Educat.</i>	Researches in Education	Italy Great Britain
<i>Seminar on Precision Theory &amp; Reliability of Cybernetical Systems, Kiev Sbornik Nauchn. Rabot. Prof.-Prepod. Sostava (Aspirantov; Kiev, Torg.-Ekon. Inst.)</i>		USSR
<i>S. Afric. Statist. J. Sankhyā</i>	South African Statistical Journal	USSR South Africa
<i>SIAM J. Appl. Math. Skand. Aktuarietidskr. Soobshcheniya A. N. Gruz. S.S.R. Soviet Math. Dokl. Statist. Hefte Statistica</i>	SIAM Journal on Applied Mathematics Skandinavisk Aktuarietidskrift Soobshcheniya Akademii Nauk A. N. Gruzinskoi S.S.R. Soviet Mathematics Statistische Hefte	India USA Sweden USSR USA Germany
<i>Statistical Ecology</i>	Statistical Ecology; Vol. I; G. P. Patil, Editor, The Pennsylvania State University Press	Italy USA
<i>Statistician</i>	The Statistician	Great Britain
<i>Statistical Methods in the Economical Analysis of Production</i>		USSR
<i>Statist. Neerlandica Statist. Praxis Statist. Rev., Belgrade Studi Prob. Statist. Ric. Operat.</i>	Statistica Neerlandica Statistische Praxis Statistička Revija Studi di probabilità Statistica e ricerca operativa in onore di Giuseppe Pompili	Netherlands Germany Yugoslavia
<i>Studia Sci. Math. Hung.</i>	Studia Scientiarum Mathematicarum Hungarica	Italy Hungary
<i>Technometrics</i>		USA
<i>The Commerce</i>		Singapore
<i>Theory Prob. Appl. Trab. Estadist. Trans. Amer. Math. Soc. Transportation Res.</i>	Theory of Probability and its Applications Trabajos de Estadística y Investigación Operativa Transactions of the American Mathematical Society Transportation Research	USA Spain USA Great Britain
<i>Unternehmensforschung</i>		Germany
<i>Zastosowania Matematyki Zeit. angew. Math. Mech. Zeit. Nat. Ökon. Zeit. Vermessungswesen Zeit. Wahrscheinlichkeitsth.</i>	Zeitschrift für angewandte Mathematik und Mechanik Zeitschrift für Nationalökonomie Zeitschrift für Vermessungswesen Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete	Poland Germany Austria Germany Germany





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